CLAIMS

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- Double walled metal tube comprising a tubular roll formed metal band having a brazing layer between the metal layers of the tubular roll formed metal band, wherein the brazing layer consists of a copper alloy, the copper alloy being a copper-tin alloy, wherein the copper-tin alloy comprises 3 – 12 wt% tin.
- 2. Double walled metal tube according to claim 1, wherein the copper-tin alloy comprises 6 8 wt% tin.
 - 3. Double walled metal tube according to claim 1 or 2, wherein the coppertin alloy comprises essentially 7 wt% tin.
- 15 4. Double walled metal tube according to any one of the preceding claims, wherein the metal band is made of steel.
 - 5. Double walled metal tube according to claim 4, wherein the steel band is made of mild steel, the mild steel preferably having a composition of 0.03 -0.07~% C, $\le 0.02~\%$ P, $\le 0.015~\%$ S, $\le 0.06~\%$ Si, 0.05-0.4~% Mn, 0.02 -0.07~% Al (all percentage in weight), the remainder Fe and unavoidable impurities..
- 6. Double walled metal tube according to any one of the preceding claims, wherein the metal band from which the tube has been roll formed has a coating of a nickel layer on one side.
- 7. Metal band, for instance for producing double walled metal tubes according to any one of claims 1 6, the metal band having a width of essentially 20 80 mm, wherein a coating layer is present on at least one side of the metal band for brazing the metal band, the coating layer being a copper-tin alloy, wherein the copper-tin alloy comprises 3 12 wt% tin.

- 8. Metal band according to claim 7, wherein the copper-tin alloy comprises 6
 8 wt% tin, preferably essentially 7 wt% tin.
- 9. Metal band according to claim 7 or 8, wherein the copper-tin alloy layer is present on both sides of the metal band, the copper-tin alloy layer preferably having a thickness of 0.5 5 μm on each side, more preferably 3 5 μm on one side and 0.5 1.5 μm on the other side, and still more preferably about 4 μm on one side and about 1 μm on the other side.
- 10. Metal band according to claim 7 or 8, wherein the metal band has a coating of a nickel layer on one side of the metal band, preferably a nickel layer having a thickness of 0.5 2 μm on one side of the metal band and a copper-tin alloy layer having a thickness of 3 5 μm on the other side of the metal band.

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11. Metal band according to any one of claims 7 - 10, wherein the metal band consists of steel, preferably mild steel, the mild steel preferably having a composition of 0.03-0.07 % C, ≤ 0.02 % P, ≤ 0.015 % S, ≤ 0.06 % Si, 0.05-0.4 % Mn, 0.02-0.07 % Al (all percentage in weight), the remainder Fe and unavoidable impurities.

- 12. Metal strip, for instance for making metal bands for producing double walled metal tubes according to any one of claims 1 6, wherein a coating layer for brazing purposes is present on at least one side of the metal strip, the coating layer being a copper-tin alloy, wherein the copper-tin alloy comprises 3 12 wt% tin.
- 13. Metal strip according to claim 12, wherein the copper-tin alloy comprises 6– 8 wt% tin, preferably essentially 7 wt% tin.
- 14. Metal strip according to claim 12 or 13, wherein the copper-tin alloy layer is present on both sides of the metal strip, the copper-tin alloy layer preferably having a thickness of 0.5 - 5 μm on each side, more preferably

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- $3-5~\mu m$ on one side and $0.5-1.5~\mu m$ on the other side, and still more preferably about 4 μm on one side and about 1 μm on the other side.
- 15. Metal strip according to claim 12, 13 or 14, wherein the metal strip has a coating of a nickel layer on one side of the metal strip, preferably a nickel layer having a thickness of 0.5 2 μm on one side of the metal strip and a copper-tin alloy layer having a thickness of 3 5 μm on the other side of the metal strip.
- 16. Metal strip according to any one of claims 12 15, wherein the metal strip consists of steel, preferably mild steel, the mild steel preferably having a composition of 0.03-0.07 % C, ≤ 0.02 % P, ≤ 0.015 % S, ≤ 0.06 % Si, 0.05-0.4 % Mn, 0.02-0.07 % Al (all percentage in weight), the remainder Fe and unavoidable impurities.

17. Method of coating a metal strip with a coating layer consisting of a copper-tin alloy comprising the following steps:

- cleaning the metal strip;
- activating the surface of the metal strip;
- continuously coating at least one side of the metal strip with a copper-tin alloy layer comprising 3 12 wt% tin;
 - posttreating the metal strip (e.g. applying an anti-oxidising agent).
- 18. Method according to claim 17, wherein the metal strip is coated with a copper-tin alloy layer comprising 6 8 wt% tin, preferably essentially 7 wt% tin.
 - 19. Method according to claim 17 or 18, herein the metal strip is continuously coated with a layer of nickel on one side of the metal strip, preferably before the coating of the copper-tin alloy layer.
 - 20. Method according to claim 17, 18 or 19, wherein the metal band is coated using Physical Vapour Deposition (PVD), comprising the following steps:

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- cleaning the metal strip;
- drying the metal strip;
- activating the metal strip;
- continuously coating at least one side of the metal strip with a copper-tin alloy layer comprising 3 12 wt% tin;
- cooling of the coated strip;
- applying an anti-oxidising agent.
- 21. Method according to claim 17, 18 or 19, wherein the metal band is coated using electroplating, preferably using a copper plated layer and a tin plated layer, the coated metal being subsequently annealed to produce a copper-tin alloy.
- 22. Method according to claim 17, 18 or 19, wherein the metal band is coated with a copper-tin alloy layer in a tin ion and copper ion containing cyanide bath.